	Application No.	Applicant(s)
Notice of Allowability	10/782,671	LIN ET AL.
	Examiner	Art Unit
	Mark Blouin	2653
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>RCE filed 2/21/06.</u>		
2. The allowed claim(s) is/are 22,36, and 37 (renumbered as 1-3).		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E Nation of Informal D	stant Application (DTO 152)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	_	atent Application (PTO-152)
,	6. ☐ Interview Summary Paper No./Mail Dat	e .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	98), 7. Examiner's Amenda	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
-	9. Other	

Detailed Action

Page 2

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 21, 2006 has been entered.

Reasons for Allowance

- 1. Claims 22,36, and 37 are allowed (renumbered 1-3).
- The following is an examiner's statement of reasons for allowance:
 This application is for a top spin valve giant magnetoresistive (GMR).
 - Claim 22 specifies a top spin valve giant magnetoresistive (GMR), which requires:
 - "...the opposite lateral edges of said layered configuration being shaped to form a substantially vertical second side region, a substantially vertical first side region distal to said second side region and a horizontal region extending between said first and second side regions, said regions being covered by said first capping layer wherein the first side region extends vertically from a position between said metallic non-magnetic coupling layer and said metallic, non-magnetic spacer layer to the substrate and wherein said second side region extends vertically from the capping layer through said AP2 layer to a point between said metallic non-magnetic coupling laver and said metallic, non-magnetic spacer layer; and a longitudinal hard magnetic bias layer formed in a contiguous junction against said first side region, said bias layer being covered by a second capping layer; a conducting lead layer, formed over said longitudinal hard magnetic bias layer, said lead layer electrically contacting said horizontal region and said second side region of said sensor element and forming, thereby, a lead overlay configuration."

These features, in combination with the other features of Claim 22, are not anticipated by, nor made obvious over, the prior art of record.

Application/Control Number: 10/782,671

Art Unit: 2653

3. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mark Blouin whose telephone number is 571-272-7583. The

examiner can normally be reached on M-F from 6:00 to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Korzuch, can be reached on 571-272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Blouin

Patent Examiner

Art Unit 2653

March 1, 2006

A. J. HEINZ PRIMARY EXAMINER Page 3